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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/074,569	02/11/2002	Nicolay Kovarsky	AMAT/6394/CPI/COPPER/PJ	S 6592
32588	7590 06/16/2004		EXAM	INER
	ATERIALS, INC. BLVD. M/S 2061		PHASGE, ARUN S	
SANTA CLARA, CA 95050			ART UNIT	PAPER NUMBER
			1753	

DATE MAILED: 06/16/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

· ·	Application No.	Applicant(s)
055	10/074,569	KOVARSKY, NICOLAY
Office Action Summary	Examiner	Art Unit
Label Anna Control Control Control	Arun S. Phasge	1753
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet w	ith the correspondence address
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication If the period for reply specified above is less than thirty (30) days, a r - If NO period for reply is specified above, the maximum statutory perior - Failure to reply with by state - Any reply received by the Office later than three months after the ma earnod patent term adjustment. See 37 CFR 1.7964.	N. 1.136(a). In no event, however, may a eply within the statutory minimum of this dwill apply and will expire SIX (6) MOI utile, cause the amplication to become A	reply be timely filed rty (30) days will be considered timely. NTHS from the mailing date of this communication RANDONED (35.11.5 C. 8.11.11)
Status		
1) Responsive to communication(s) filed on		
_	is action is non-final.	
3) Since this application is in condition for allow		ters, prosecution as to the ments is
closed in accordance with the practice under		
Disposition of Claims		
4)⊠ Claim(s) <u>1-49</u> is/are pending in the application	on.	
4a) Of the above claim(s) is/are withdo		
5) Claim(s) is/are allowed.		
6)⊠ Claim(s) <u>1-49</u> is/are rejected.		
7) Claim(s) is/are objected to.		
8) Claim(s) are subject to restriction and	/or election requirement.	
Application Papers		
9)☐ The specification is objected to by the Examin		
10) The drawing(s) filed on is/are: a) □ ac		
Applicant may not request that any objection to the		
Replacement drawing sheet(s) including the corre	ection is required if the drawing	(s) is objected to. See 37 CFR 1.121(d)
11) ☐ The oath or declaration is objected to by the l	Examiner, Note the attached	d Office Action or form PTO-152.
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of:	gn priority under 35 U.S.C. §	119(a)-(d) or (f).
 Certified copies of the priority document 	nts have been received.	
Certified copies of the priority document	nts have been received in A	pplication No
Copies of the certified copies of the pri	ority documents have been	received in this National Stage
application from the International Bure	au (PCT Rule 17.2(a)).	
* See the attached detailed Office action for a lis	st of the certified copies not	received.
ttachment(s)	_	
) ☑ Notice of References Cited (PTO-892)) ☑ Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview S	ummary (PTO-413) s)/Mail Date

DETAILED ACTION

Drawings

The drawings are objected to because figures 2-4 contain the following errors: In figure 2 it appears that the stream 214 goes through the cathode chamber as well as stream 208. In figure 3 is appears that the arrow head for 212 has been separated from the arrow. In figure 4, it appears that 403 has not been addressed. Corrected drawing sheets are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by

the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

Claims 3, 5 and 37 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

It is unclear what is meant by the limitation "anodic membrane" or "cathodic membrane". It appears to be a misspelling of anionic or cationic.

Claim Rejections - 35 USC \$ 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 28 is rejected under 35 U.S.C. 102(b) as being anticipated by Oka et al. (Oka), U.S. Patent 4,324,629.

The Oka patent discloses the claimed method of plating copper comprising supplying an electrolyte solution to a copper plating cell, plating copper onto a substrate in the plating cell with the electrolyte solution, removing used electrolyte solution from the plating cell and refreshing a portion of the used electrolyte solution with an electrodialysis cell (see figure 1 and columns 5-6).

Therefore, since the Oka patent discloses each and every limitation, the claim is anticipated.

Double Patenting

Claims 1-9 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-38 of copending Application No. 10/358,781. Although the conflicting claims are not identical, they are not patentably distinct from each other because the claims of the copending application when read in light of the specification clearly encompasses and renders obvious the claims of the instant application.

The copending application discloses the use of an electrodialysis unit in conjunction with the electroplating unit (see claims 18-30 for example). The reference differs from the instant claims by the description of the plating unit.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to use the claimed electrodialysis cell with an type of electroplating cell, because the copending application discloses the use of an electrodialysis cell to purify the electroplating solution. Other limitations to the way the electrodialysis cell works, such as claims 8-11 are by definition what would occur when the current is applied during electrodialysis.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See In re Goodman, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); In re Longi, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); In re Van Ornum, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); In re Vogel, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, In re Thorington, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Arun S. Phasge whose telephone number is (571) 272-1345. The examiner can normally be reached on MONDAY-THURSDAY, 7:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nam X Nguyen can be reached on (571) 272-1342. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Arun S. Phasge

Primary Examiner Art Unit 1753

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